

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Honours Bachelor of Applied Technology -
Biotechnology

2018

BIO2 Curriculum Modification for 2019-20

Fanshawe College

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[cae_appliedscienceandtech_honoursbachofappliedtech_biotech_documentation](#)

CURRICULUM MODIFICATION REQUEST FORM

COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Program Requiring Changes

Program Title: Bachelor of Applied Technology – Biotechnology	
Program Number: BIO2	Date Submitted: 11/26/2018
Dean responsible for program: Vertha Coligan	Chair: Lindsay Engel
Credential Provided: <input type="checkbox"/> Declaration of Academic Achievement <input type="checkbox"/> Local Certificate <input type="checkbox"/> Ontario College Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma <input type="checkbox"/> Grad Certificate <input checked="" type="checkbox"/> Degree <input type="checkbox"/> Apprenticeship	
Program Intakes: <input checked="" type="checkbox"/> F <input type="checkbox"/> W <input type="checkbox"/> S Other:	Catalogue Year(s) Impacted: 2019/2020
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: 2017
<div style="background-color: black; color: white; padding: 5px; text-align: center;"> <i>I have read the reasons for the change and...</i> </div>	
Dean of Faculty (Lead program): <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<i>Vertha Coligan</i> Dec 13/18
Dean of Faculty (Affiliate program-impacted by change): <i>(Gen Ed.)</i> <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<i>S. Chiu</i> Jan 14/19
Dean of Faculty (Affiliate program-impacted by change): <input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Senior Vice President Academic (required for major changes and late DAs): <input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Director, Centre for Academic Excellence: <input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>Ed Ferriss</i>
Office of the Registrar: <input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>Amber Harwood</i> Dec. 14/18
Notes: This change is to identify SFTY-7001 Occupational Health and Safety and ZOOL-7001 Animal Care and Handling as core courses (vs. non-core courses). This will ensure the required 80:20 ratio of core:non-core courses is met. <i>- The general elective requirement from group 4 was removed Upper level general electives are required for group 700</i>	

per
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m.
Richard

Degree Audit Report

Catalog: 2018/2019

Program: BIO2 Department: MAN - Applied Science and Technology Academic Level: DG CCD: 4 - 4 Year Degree-Applied & Collab Credential: Honours Degree Grade Scheme: LG2 Major: BIO2 - Honours Biotechnology Co-Op Indicator: N/A	Name: Honours Bachelor of Applied Technology - Biotechnology Div: MAN - Manufacturing Sciences Division
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Academic Program Requirement

Total Credits: 153.00	Residency Reqmt: 39.00
GPA Requirement: 2.00	Residency Reqmt GPA: 2.00
Minimum Grade: D	

Academic Requirement: BIO2.18 Bachelor of Applied Technology - Biotechnology

Major: BIO1
Grade Scheme: LG2
Minimum GPA: 2.00
Minimum Grade:

Subrequirement: Core Courses

Take all of the following Mandatory (Core) Courses: The Minimum Cumulative GPA for Core Courses is 2.5
Group 1

LEVEL 1 In addition to the following mandatory courses, please refer to the Non-Core Level 1 requirement below

		Total Hours	Total Credits	GE
CHEM-7002	Chemistry 1	75.00	4.00	
BIOL-7002	Molecular Biology	60.00	3.00	
MATH-7002	Mathematics 1	45.00	3.00	

Group 2

LEVEL 2 In addition to the following mandatory courses, please refer to the Non-Core Level 2 requirement below

		Total Hours	Total Credits	GE
CHEM-7003	Chemistry 2	75.00	4.00	
PHYS-7001	Physics 1	60.00	3.50	
BIOL-7003	Plant & Animal Anatomy & Physiology	75.00	4.00	
COMP-7002	Computers & Applications	45.00	2.00	

Group 3

LEVEL 3 In addition to the following mandatory courses please refer to the Non-Core Level 3 requirement below

		Total Hours	Total Credits	GE
CHEM-7004	Analytical Chemistry 1	60.00	2.50	
PHYS-7005	Physics 2	60.00	3.50	
BIOL-7001	Microbiology 1	60.00	2.50	
COOP-1021	Co-Op Educ. Employment Prep	6.00	1.00	

Degree Audit Report

MATH-7004	Statistics & Quality Assurance	45.00	2.50
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Group 4

LEVEL 4 In addition to the following mandatory courses, please refer to the Non-Core Level 4 requirement below

		Total Hours	Total Credits
BIOL-7004	Genetics	60.00	3.00
PHYS-7003	Radiation Physics	75.00	4.00
MATH-7003	Mathematics 2	45.00	2.50
CHEM-7005	Organic Chemistry 1	60.00	3.00
COMP-7003	Advanced Computer Applications	45.00	3.00
SFTY-7001	Occupational Health & Safety	45.00	2.50

Group 5

LEVEL 5 In addition to the following mandatory courses please refer to the Non-Core Level 5 requirement below

		Total Hours	Total Credits
CHEM-7006	Biochemistry 1	75.00	5.00
CHEM-7007	Instrumental Chemistry Analysis 1	75.00	3.50
BIOL-7005	Microbiology 2- Industrial Applications	75.00	3.50
CHEM-7008	Organic Chemistry 2	60.00	3.00

Group 6

LEVEL 6 In addition to the following mandatory courses, please refer to the Non-Core Level 6 requirement below

		Total Hours	Total Credits
BIOL-7006	Applied Molecular Genetics	45.00	3.00
CHEM-7009	Instrumental Chemistry Analysis 2	75.00	3.50
PHRM-7002	Pharmacology/Toxicology & Nutraceuical	45.00	3.00
COMM-7005	Research & Technical Writing	30.00	2.00
CHEM-7001	Biochemistry 2	75.00	3.50
ZOOB-7001	Animal Care & Handling	30.00	2.00

Group 7

LEVEL 7 In addition to the following mandatory courses please refer to the Non-Core Level 7 requirement below

		Total Hours	Total Credits
CHEM-7010	Analytical Chemistry 2	60.00	2.50
BIOL-7007	Applied Biotechnology 1	60.00	3.50
BIOL-7008	Bioinformatics	45.00	2.00
ENGR-7001	Bioprocess Engineering	45.00	3.00
SFTY-7002	Biosafety & Regulatory Affair	30.00	2.00
COMM-7006	Thesis	45.00	3.00

Group 8

LEVEL 8 In addition to the following mandatory courses, please refer to the Non-Core Level 8 requirement below

		Total Hours	Total Credits
BIOL-7009	Applied Biotechnology 2	75.00	3.50
BIOL-7010	Bioethics	45.00	3.00
BIOL-7011	Current Topics in Biotechnology	45.00	3.00

ENGR-7002	Manufacturing Process Engineering	45.00	3.00
BIOL-7012	Microbiology 3-Immunology & Virology	60.00	3.00

Co-op Requirement Students Must Complete 1 Co-op Work Term

Total Hours	Total Credits	GE
1.00	1.00	

COOP-BIO2W BIO2 Co-op Work Term

Take all of the following Mandatory (Non-Core) Courses: The Minimum Cumulative GPA for Non-Core courses is 2.0

LEVEL 1

Total Hours	Total Credits	GE
45.00	3.00	
45.00	3.00	

ENVR-7004 Environmental & World Issues
COMM-7001 Introductory Communications

LEVEL 3

Total Hours	Total Credits	GE
30.00	2.00	
45.00	3.00	

COMM-7020 Professional Writing for Applied Degrees
HIST-7003 History & Philosophy of Sciences

LEVEL 4

Total Hours	Total Credits	GE
45.00	2.50	

~~SFTY-7001 Occupational Health & Safety~~

LEVEL 6

Total Hours	Total Credits	GE Credits
30.00	2.00	

~~ZOO 7001 Animal Care & Handling~~

LEVEL 8

Total Hours	Total Credits	GE
45.00	3.00	

ECON-7002 Macroeconomics

Group 6

~~Gen Ed Electives Take 3 General Education Elective Credits at the Introductory Level from the following Subjects: Social Science, Math, Science Normally taken in Level 1~~

Group 7.

Take 2 General Education Elective Credits at the Upper Level (Non-Introductory) - Normally taken in Levels 2, 3, 4, and 5

Group 8

Take 9 General Education Elective Credits at either the Introductory or Upper Level Normally taken in Levels 6, 7 and 8

Degree Audit Report

Subrequirement: Program Residency

Students Must Complete a Minimum of 39 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

Approved By Chair/Manager:

Approved by Dean:

General Education Approved By (as appropriate):

Department and Date:

Date:

Date:

JAN - 10 / 19.

EDH
Jan 29 '19

Jan 14 / 19

PCutt